UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,964	07/08/2003	Hector F. DeLuca	1256-00777	8876
26753 7590 09/01/2010 ANDRUS, SCEALES, STARKE & SAWALL, LLP 100 EAST WISCONSIN AVENUE, SUITE 1100			EXAMINER	
			MCMILLIAN, KARA RENITA	
MILWAUKEE, WI 53202			ART UNIT	PAPER NUMBER
			1627	
			MAIL DATE	DELIVERY MODE
			09/01/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/614,964	DELUCA ET AL.			
Office Action Summary	Examiner	Art Unit			
	KARA R. MCMILLIAN	1627			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
• •	VIC SET TO EVOIDE 2 MONTH	(e) OD THIDTY (20) DAVE			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be tirg will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>12 J</u>	uly 2010.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-39</u> is/are pending in the application.					
4a) Of the above claim(s) <u>1-21 and 23-39</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>22</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 12, 2010 has been entered.

Response to Amendment/ Arguments

No amendments to the claims were made. Claims 1-21 and 23-39 were previously withdrawn. Claim 22 is presented for examination

Applicant's arguments filed July 12, 2010 have been fully considered but they are not persuasive. Applicants disagree with the Examiners position that it is clear from the disclosure of Deluca et al. that hydrogen is the preferred substituent of Y_1 , Y_2 , R_6 and R_8 since in both Schemes I and II in columns 21-26 of Deluca et al. the end products are exemplified with hydrogen being the substituent of Y_1 , Y_2 , R_6 and R_8 . Applicants argue that the fact that the Scheme shows an end product with hydrogen for Y_1 , Y_2 , R_6 and R_8 does not mean that hydrogen is the preferred substituent rather in order to obtain the compounds claimed, hydrogen had to be inserted. Applicants further provide evidence that compounds disclosed as the final step in a synthesis scheme is not necessarily the

preferred compound, rather it is the compound that is converted into the desired compounds.

This argument is found not persuasive because the compounds in Deluca et al disclosed as the end products of both Schemes I and II in columns 21-26 are also the specific compounds claimed in claims 12 and 13 of DeLuca et al. and having hydrogen as the substituent of Y_1 , Y_2 , R_6 and R_8 . Thus as previously argued, it is clear from the disclosure of Deluca et al. and the claims of Deluca et al. that hydrogen is the preferred substituent of Y_1 , Y_2 , R_6 and R_8 . Thus since hydrogen is the preferred substituent of Y_1 , Y_2 , Y_3 , Y_4 , Y_5 , Y_6 and Y_8 and claim 8 of Deluca et al. specifically claims the preferred R side chain, Applicants claimed compound of claim 22 is anticipated since one of ordinary skill in the art is able to "at once envisage" the specific compound within the generic chemical formula.

Thus, for reasons of record and for the reasons presented above, the previous rejection under 35 USC 102 is hereby maintained and reproduced below. This action is made Non-FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/614,964

Art Unit: 1627

Claim 22 is rejected under 35 U.S.C. 102(b) as being anticipated by Deluca et al. U.S. Patent No. 5,843,928 (provided on IDS).

Page 4

Claim 22 of the instant application claims the compound (20S)- 1α -hydroxy-2-methylene-19-nor-vitamin D_3 having the formula:

Deluca et al. claim a novel class of vitamin D related compounds, namely, the 2-alkylidiene-19-nor-vitamin D derivatives (see abstract). Claim 1 of Deluca et al. claims a compound having the formula:

Application/Control Number: 10/614,964

Art Unit: 1627

$$Y_2O^{\text{Im}}$$
 R_6
 R_8

where Y_1 and Y_2 are selected from the group consisting of hydrogen and a hydroxyl-protecting group and R_6 and R_8 are selected from hydrogen, alkyl, hydroxyalkyl and fluoroalkyl, or when taken together represent the group —(CH2)_x, where x is an integer from 2 to 5. Claim 8 of Deluca et al. claims the compound of claim 1 where R is a side chain of the formula:

Applicant's claimed compound is exemplified in claim 8 of Deluca et al. when Y_1 , Y_2 , R_6 and R_8 are all hydrogen. The compound of instant claim 22 is anticipated since an ordinary skilled artisan would be able to clearly envisage Applicant's claimed

Art Unit: 1627

compound from Deluca et al. since and the Y_1 , Y_2 , R_6 and R_8 genus are limited, thus very few combinations can be obtained. Please note that if one of ordinary skill in the art is able to "at once envisage" the specific compound within the generic chemical formula, the compound is anticipated. One of ordinary skill in the art must be able to draw the structural formula or write the name of each of the compounds included in the generic formula before any of the compounds can be "at once envisaged." One may look to the preferred embodiments to determine which compounds can be anticipated. *In re Petering*, 301 F.2d 676, 133 USPQ 275 (CCPA 1962).

Conclusions

Claim 22 is rejected. Claims 1-21 and 23-39 are withdrawn. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KARA R. MCMILLIAN whose telephone number is (571)270-5236. The examiner can normally be reached on Monday-Thursday from 8:30 am- 6:00 pm and every other Friday from 8:30 am- 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on (571)272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/614,964 Page 7

Art Unit: 1627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kara R. McMillian/ Examiner, Art Unit 1627

KRM

/SREENI PADMANABHAN/

Supervisory Patent Examiner, Art Unit 1627